



Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706 S

217/782-6760

Refer to: St. Clair County - East St. Louis/Wastex #2
Permit No. 1980-18-DE

July 10, 1980

Wastex Research, Inc.
20th and Broadway Streets
East St. Louis, Illinois 62207

EPA Region 5 Records Ctr.



315947

Gentlemen:

Permit is hereby granted to Wastex Research, Incorporated, and Norma Chase, President, to develop a solid waste management site consisting of approximately twelve (12) acres in the Northwest Quarter of Section 19, Township 2 North, Range 9 West, Third Principal Meridian, in the Common-fields of Cahokia, St. Clair County, Illinois, also described as 2000 Broadway, East St. Louis, to store, transfer, process and recover special wastes, all in accordance with the application consisting of twenty-five pages received May 12, 1980 and one plan sheet received May 28, 1980; said application prepared by Robert L. Aufdemberge, P. E.

This permit is issued subject to the standard conditions set forth on page three (3) attached hereto and incorporated herein by reference, and further subject to the following special conditions:

1. The facility shall be developed in accordance with the Illinois Pollution Control Board Rules and Regulations, Chapters 2, 7, and 9.
2. All special wastes brought to the facility for storage and/or treatment shall be done so utilizing the Agency's supplemental permit system and manifest system.
3. All drummed wastes received shall be stored inside the facility as shown on plan sheets P-1 and P-2.
4. Special wastes generated at the facility for landfill disposal shall be disposed at I.E.P.A. permitted landfill sites utilizing the Agency's supplemental permit system and manifest system.

RECEIVED

JUL 16 1980

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

stex Research, Inc.

5. This permit is for development only. No wastes are to be processed until such time as an operating permit for the processing facility is issued.

Very truly yours,

Thomas E. Cavanagh, Jr.

Thomas E. Cavanagh, Jr., Manager
Residual Management Section
Division of Land/Noise Pollution Control

cc: Southern Region
Permit Section, DAPC

Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706



Waste
Check if
Applicable

APPLICATION FOR PERMIT TO DEVELOP A SOLID WASTE MANAGEMENT SITE

☒ Storage
☒ Transfer
☒ Processing
☒ Recovery
☒ Incineration
☐ Other

*Logged In
JRR*

In Accordance With The Environmental Protection Act

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

PART I - APPLICANT INFORMATION

A. Site Identification

1. Name of Applicant Terry Hein - Westex Research, Inc.
(Person responsible for operation)

2. Address of Applicant 20th & East Broadway
(Street, P.O. Box, or R. R. #)

**Notification Sent
Per I. E. P. A. Act §39(c)**

East St. Louis, Illinois 62207
City State Zip Code

MAY 12 1980

Telephone: 312-271-2372
(Area Code) (Number)

3. **DL/NPC** Name of Land Owner Same as above
(If same as above, so indicate)

4. Address of Land Owner _____
(Street, P.O. Box, or R. R. #)

City State Zip Code

STPR 5/15/79
LPC-7 Rev. 5/79

RECEIVED

MAY 09 1980

**E.P.A. — D.L.P.C.
STATE OF ILLINOIS**

5. Name of Site Waste Research Inc. (formerly Obeare-Nester Glass Plant)

6. Address of Site 2000 & East Broadway
(Street, P.O. Box, or R. R. #)

St. Louis Illinois 62207
City State Zip Code

Clair County East St. Louis Township

7. Land ownership (Check Applicable Boxes)

☒ Presently Owned by Applicant ☐ To be Leased by Applicant For Years
☐ To Be Purchased by Applicant ☐ Years of Lease Remaining:

Operated by: Ill. Corporation ☒ Partnership ☐ Government ☐
Individual ☐ Other ☐ Termination date of lease

B. SITE BACKGROUND (Check Applicable Box or Boxes)

8. ☐ This is an existing operation begun (mo.) (yr.)
☒ This is a proposed operation.
☐ This is a proposed extension of an existing adjacent operation:
Illinois E.P.A. Permit No. :
☐ No Illinois E.P.A. Permit.

PART II - LOCATION INFORMATION

A. ZONING AND LOCAL REQUIREMENTS

9. Present zoning classification of site M-2 Manufacturing

10. Does present zoning of site allow the proposed usage?
☒ Yes ☐ No.

11. Restrictions (if any) NONE

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	(X)	(X)	()	()	()
b. East	()	()	(X)	()	()
c. South	(X)	(X)	(X)	()	()
d. West	(X)	(X)	(X)	()	()

*SPECIFY USE CLASSIFICATION See attached appendix

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body?
(X) Yes () No If yes, List below. All EPA permits
are being applied for at this time.
- b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction?
() Yes (X) No
- c. If the answer to (b) is yes, include photocopies of supporting documents.

B. LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published).

Quadrangle Map Provided:

See attached appendix

Name

Date

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site. ✓
- b. Provide a legal description of the site. (Typewritten on attached sheet.)
- Acres in Quarter, Quarter, Quarter,
of Section , Township ,
Range , P.M.
See attached appendix

16. General characteristic: (Flood Plain, Hillside, Field, Strip
Quarry, Gully, Gravel Pit, Swamp, etc.)
Fully describe: The site was formerly the location of the
Mar-Nester Glass Plant. The site is completely developed

17. The site is flat with seven structures on site.
Provide the following information on the U.S.G.S. quadrangle
topographic map, if within the site or adjacent to the outer
perimeter of facility: NOT APPLICABLE

Wells (domestic, industrial, etc.)
Public water sources (wells, stream, etc.)
Residences or residential areas, commercial facilities,
sewage treatment facilities, industries, institutions, etc.
Other treatment facilities not shown on topographic map
such as diverted streams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above
features on a separate topographic map (See Part IV - A - 23).

PART III - SITE CHARACTERISTICS

A. Completed If Land Disposal Of Waste On Site Is Requested

A. GEOLOGY HYDROLOGY NOT APPLICABLE

The instructions for this Part of the Application
should be read carefully prior to initiating the
data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to
allow thorough evaluation of the hydrologic and geologic conditions
within and surrounding the site. This data must fully describe the
geologic interrelationships of the landfill facility, local
groundwaters, and surface waters. All information requested in
details 18 through 22 should be integrated and presented as a
hydrogeologic report.

B. GEOLOGY NOT APPLICABLE
GENERAL GEOLOGIC SETTING

18. Provide a brief description of the general geography of the
region in which the site is located, and a summary of the
geologic conditions typical of that portion of Illinois.

TYPE AND EXTENT OF SUBSURFACE MATERIALS

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained. NOT APPLICABLE
20. Include the following information regarding the bedrock, if encountered during the boring program: NOT APPLICABLE
 - a. Depth(s) to bedrock.
 - b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
 - c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

C. MATERIALS CLASSIFICATION AND ANALYSIS NOT APPLICABLE

21. Provide the following information for samples taken during the boring operation:
 - a. textural classification (U.S.D.A. system)
 - b. particle size distribution curves for representative samples
 - c. coefficient of permeability - based on field and (or) laboratory determinations
 - d. ion-exchange capacity and ability to absorb and "fix" heavy metal ions

D. HYDROLOGY NOT APPLICABLE

22. Provide the following information regarding the hydrologic flow system in the area of the site:
 - a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.
 - b. Rate(s) and direction(s) of ground-water movement.
 - c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
 - d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
 - e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

PART IV - CONSTRUCTION PLANS
AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN NOT APPLICABLE

23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all buildings, ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries.

Show the location and elevation of borings as described in Part III - 19, 20.

24. Provide a separate map, at the same scale as that above, of the developed site showing the following: NOT APPLICABLE
- a. All changes in topography dictated by design and operational factors.
 - b. All surface features (as specified in IV - A - 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices, (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations.
 - c. Earth barriers, berms, dikes and other barriers, including essential dimensions of each.
25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet. NOT APPLICABLE
26. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information: NOT APPLICABLE
- a. Type, location and construction of subsurface collection system, and all attendant devices.
 - b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.
 - c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.
 - d. Discharge point(s) of effluent.

B. SCHEDULE OF CONSTRUCTION

27. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be developed. Estimate the date of beginning and ending of each phase of construction and operation. See attached appendix

C. CONSTRUCTION REQUIREMENTS

28. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:

- a. Prevention of surface-water pollution
- b. Control of gas migration.
- c. Elimination of flood hazard, if any.
- d. Employee facilities.
- f. Measuring quantity of waste delivered to the site.

See attached appendix

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

29. Indicate the estimated quantity of each of the following sources and types of waste the facility will handle during each day of operations; each week of operation; each year of operation. Specify any additional information regarding refuse source and quantity.

<u>SOURCE</u>	<u>TYPE</u>	<u>DAILY QUAN.</u>	<u>WEEKLY QUAN.</u>	<u>ANNUAL QUAN.</u>
a. Residential				
b. Commercial	Solvents&Sludges	500	2500	120,000
c. Industrial	Solvents&Sludges	1500	7500	390,000
d. Agricultural				
e. Other (Describe)				

B. OPERATING REQUIREMENTS

30. Attach a typewritten description of provisions for:

- a. Personnel for supervision and operation
- b. Traffic control

See attached appendix

- c. Designation of unloading area
- d. Dust control
- e. Odor control
- f. Management of surface water
- g. Erosion control
- h. Monitoring program for gas
- i. Reuse and recycling operations

See attached appendix

31. Provide a list of equipment to be used for the operation:

ITEMS	MODEL NUMBER	NO. OF UNITS IN OPERATION	DESCRIPTION
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PART VI - NOTICE / LAND USE

32. In order that notice of intent be sent to those affected by this application, you shall provide these names and addresses to the Agency:

- a) State's Attorney of the county in which the site is located.
- b) Chairman of the County Board of the county in which the site is located.
- c) Each member of the General Assembly from the Legislative district in which the site is located. (Three Representatives, One Senator)

- d) The clerk of each municipality, any portion of which is within three miles of the site.
- e) Adjacent landowners to the proposed site.
- f) Local zoning and planning agencies.

33. Provide the following documentary evidence sufficient to show:

- a) That the facility is located so as to minimize scenic blight, and to avoid damage to archaeological and/or historic sites and areas of significant natural beauty;
- b) That the facility is located so as to avoid any hazards to public health and safety and to minimize any offenses to the senses of persons residing, working, traveling, and/or in any way spending periods of time in the immediate vicinity. Immediate vicinity is here defined to mean a one-mile radius zone adjacent to the boundary of the site;
- c) Taking into consideration the character of the area involved, including the character of surrounding land uses and the trend of development, as well as local comprehensive plans and zoning ordinances, that the facility is located so as to minimize incompatibility with the character of the surrounding area.
- d) That the facility is located so as to avoid causing substantial depreciation of nearby property (taking into consideration, where possible, any mitigation caused by the short proposed life of the site and end use);
- e) That any detriments caused by removal of the site from its former use are out-weighted by the need in the area for a landfill at this location;
- f) That the facility is located so as to avoid a continued adverse effect on existing air and water quality; and
- g) Taking into consideration geological and hydrological factors, the location of the site in relating to sources of solid waste and accessibility to transportation modes, and the technical feasibility and economic reasonableness of disposing of solid waste at the proposed location, that the facility is suited for its intended use.
- h) That access roads and bridges are not limited to preclude necessary vehicular traffic (i.e. proposed size and weight limits).

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant:

Terry Hein
Terry Hein

5/5/80
Date

Attest:

James A. Kirk

5/5/80
Date

Signature of Engineer:

Robert L. Audemberg
R. L. Bob Audemberg P.E.

Illinois Reg. No: 62-361-0

Attest:

James A. Kirk

5/5/80
Date

Signature of Landowner(s):

Terry Hein
Wastex Research Inc.

5/5/80
Date

Attest:

James A. Kirk

5/5/80
Date

Engineer (Seal)

Signature of other person, technical and non-technical, who has supplied data contained in the submittal.

Signature

Date

Reg. No., Position, Title, Etc.

Engineer (Seal)

Signature

Date

Reg. No., Position, Title, Etc.

(Seal)

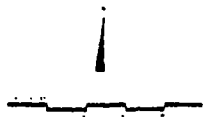
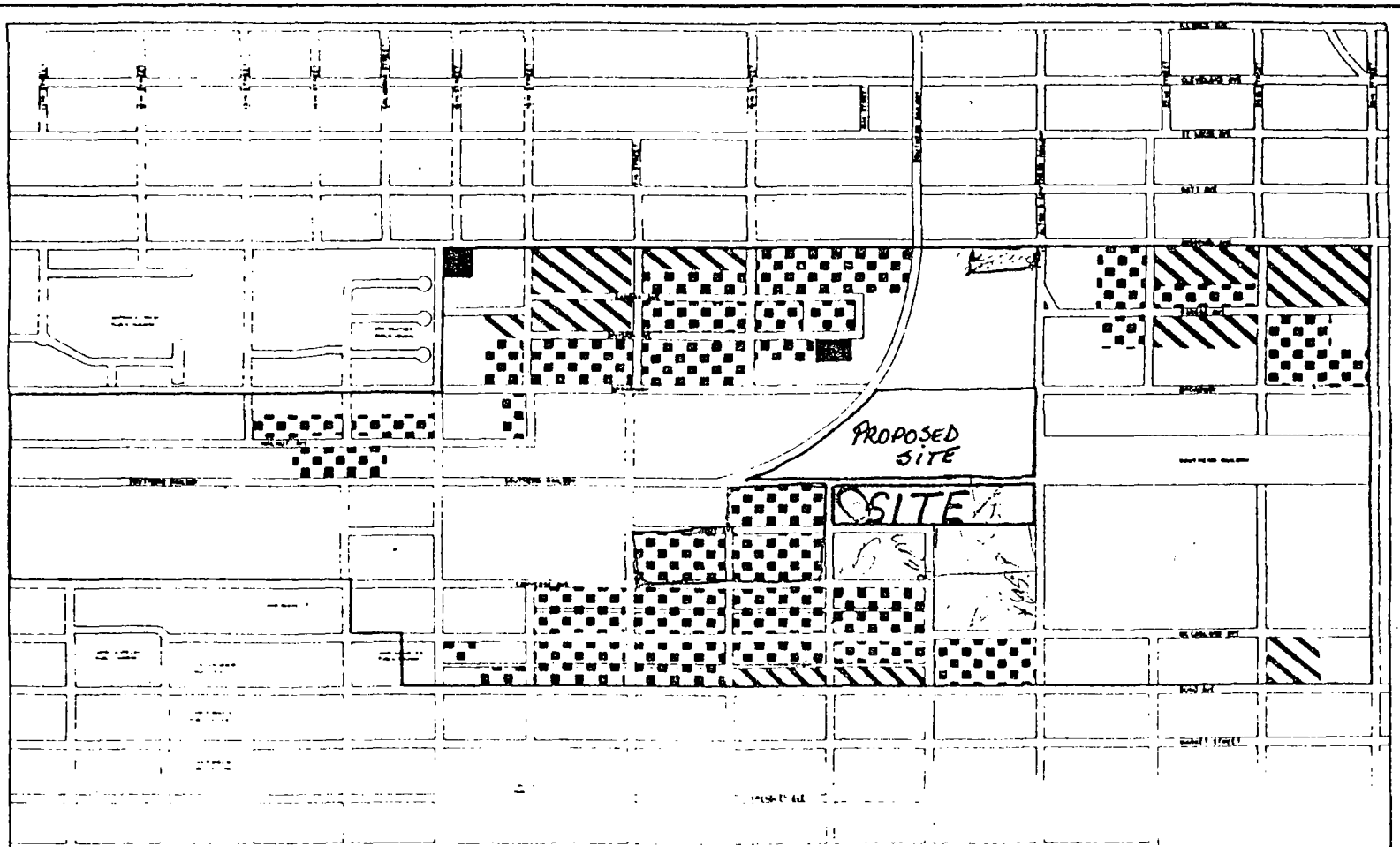
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Part II - Location Information

A-12 Several general categories of land use are represented in the project area. The dominant land uses include industrial (140) acres) and single-family residential (110 acres). Other land uses include multi-family residential (minor acreage). Commercial (11 acres). Land devoted to transportation such as streets, highways and railroads represents approximately 43 acres. Residential land uses generally located north and south of the industrial site, with commercial site (retail stores), (cafes), (funeral homes), and (public schools, fire halls, health service) land uses are located throughout the project area, although they tend to be more in evidence in the northwest portion of the project area.




EAST ST. LOUIS
INDUSTRIAL DISTRICT
REDEVELOPMENT PROJECT

PLATE 6

RESIDENTIAL BUILDING CONDITIONS

 POOR

 FAIR

 GOOD

Part II

Legal Description

15-B There is no legal available at this time.

There are approximately 12 acres available.

Currently a land surveyors report is being made by the port authority.

Part IV

Schedule of Construction

27. At the current time there are no estimates available on construction as this will have to correspond with money being made available to us.

We will, as soon as it becomes available, file additions to the schedule of construction.

Part IV c. Construction Requirements

28. a. Not Applicable

 b. Not Applicable

 c. The site is not within the flood plane
 as verified by St. Louis Corp of Engineers
 on January 7, 1980.

 d. Employee facilities are included in the
 construction plans for the site. These
 plans will include the following:

 (1). Lunch & Lounge Room

 (2). Rest Room (Male & Female)

 (3). Wash Up Room

 (4). Locker Room

 e. All incoming raw waste is delivered to the
 site either in drums or bulk tank trucks.
 The drums are counted and recorded, then
 are stored and or emptied into larger
 storage tanks. All bulk material is pumped
 into storage tanks, all storage tanks will
 have gauges indicating gallonage within
 each.

Part V

Operating Plan

B. 30.

- a. At the time of start up of the proposed plant a minimum of fifteen personnel will be employed. These personnel will initially be broken down as follows:

- (1) General Manager
- (1) Plant Superintendent
- (3) Working Foremen
- (6) Laborers
- (4) Office Personnel

As additional phases of the plant go into operation there are plans for up to fifty people to be involved in the many areas of work. These personnel are proposed to be used in the following areas:

- (1) General Manager
- (3) Plant Superintendents
- (12) Working Foremen
- (24) Laborers
- (3) Boiler Engineers
- (7) Office Personnel

- b. Traffic control is really a two phase plan. (1) is the incoming and outgoing deliveries. These are handled through a front gate area with deliveries well marked for easy following by drivers making their deliveries and pickups.

(2) is the traffic control within the plant operation itself. The fork-lifts and end-loaders will have designated courses of traffic. These will be marked so that no confusion as to where they are allowed to be with vehicles and not allowed cannot be confused.

- c. Designated unloading areas and loading areas will be just that! They will be so indicated by a highly visible sign and all personnel within all areas of the plant operation will be familiar with the overall aspect of the unloading and the loading areas.
- d. Dust control should not be of any problem but consideration for such has been given and all areas will be maintained in such a manner that debris and dirt will be picked up. In the event this would become a problem then all employees are provided with masks to be utilized at their discretion.
 - e. Vents will be installed and windows are currently available for additional ventilation if necessary.
 - f. Not applicable as the entire site drainage is collected within the centralized storm sewer system.

- g. Erosion control is not applicable.
- h. Monitoring gas is not applicable.
- i. Reuse and recycling operation is exactly what the plant is for. The entire operation is based on several areas of taking items which in the past have had no value whatsoever. Initially we are receiving waste solvents and paint sludges, both industrial and commercial types and processing these solvents and sludges through strainers and through a restilling process. The substance we receive from the restilling process then become a commercially saleable fuel source. This can be used for many different things, but basically used as a replacement for fuel oil. The by-product or residue left after restilling process is called still bottoms. These have in the past been dumped into landfills and were not of any use. We are incorporating these still bottoms along with a third waste and that being sawdust. At this point we combine the still bottoms and the sawdust which then is used as another fuel source to go along with our restilled fuel already received. Thus we have taken two items which have in the past had no value, and we now have two valuable sources of fuel.

31. Equipment List

<u>Item</u>	<u>Model #</u>	<u># of Units</u>	<u>Description</u>
Fork Lift	30 G54	1	1967 Pettibone Mercury
Fork Lift		1	1947 Clark
Still		1	1000 gal/day processed
Ford Truck		1	GMC
Tank Truck		2	White Freightliner
Pump		4	G.E. Gear Pump
Still	NL0200	2	Luva 200 gal per hour
End Loader	Rubber Tire	1	Caterpillar
<u>" Current on site equipment to be rebuilt"</u>			
Incinerators & heat recovery system		1	Rebuilt
Boilers added to incinerator		1	Superior
Existing Bucket Elevators		9	
Belt Conveyors		7	Atlas
Flite Conveyors		3	
Mixer	# 586	1	Smith
Assorted Mixing Tanks & Hoppers		10	

Part VI

Notice/Land Use

- a. Clyde Kuehn; 10 Public Square, Belleville, IL 62220
- b. Victor Cauty; 10 Public Square, Belleville, IL 62220
- c. Sen. Kenneth Hall; 1725 Kansas Avenue, East St. Louis,
IL 62205
Rep. Monroe Flinn; 2746 Camp Jackson Road, Cahokia, IL
62206
Rep. Celeste Stiehl; 24 Lake Inez, Belleville, IL 62201
Rep. Wyvetter Younge; 1617 North 46th St., East St. Louis,
IL 62204
- d. Frank C. Smith; 7 Collinsville Ave., East St. Louis, IL
62207
- e. All areas surrounding the plant are vacant grounds and
buildings except where the Southern railroad joins the
property.
- f. City of East St. Louis, IL., Planning Department; 320
North 10th Street, East St. Louis, IL 62205
City of East St. Louis, IL, Planning Commission; 320
North 10th Street, East St. Louis, IL 62205

33.

- a. The facility is located in an industrial area of the city. It was previously used by an industry and although not the same use will be applied it will be similar in that all activities will take place in existing structures. It will not be open to public view from surrounding residential area or from traffic passing by.
- b. The facility is entirely fenced and will be secured at all times by guards working on the entrance gates. This will keep any public out that do not have reason to be there. The people working there will also benefit in regard to their safety, and their property, i.e. their cars, etc., will be taken care of due to guards being available. The area is not directly adjoining any existing residential properties and is only sided by other industries or vacant ground thus eliminating any visual or sensual offenses to the immediate area.
- c. The character of the area where we are locating is currently of no value. Essentially the area has been written off by all in the community. It has not had any value to the public, industry or the city since its' closing as an operating plant. Other areas surrounding our proposed site are in general disarray and have minimum value if any at all. We feel we will begin to bring growth into an area that needs development.

- d. The area currently is valueless to the city of East St. Louis. It currently is eliminated from the tax roles having been turned over to the Port Authority for disposing of the property. The expectancy of the new industry is seriously needed by a major portion of the Midwest and should be needed for many years to come.
- e. Not Applicable- as there is no landfill involved and the existing structures will be maintained.
- f. The facility will incorporate what is needed to maintain all existing air and water qualities.
- g. Not Applicable- the area will dispose of all solid waste in a manner that should be used more so than currently being done.
- h. The existing transportation modes are very accessible as we will show. Internally, the project area is served by 18 streets and roads representing classification ranging from local streets to major arterials. Because of the land use, mix of residential and commercial/industrial, the street system has deteriorated both in terms of its ability to effectively handle local industrial and residential traffic. These classifications for roads and streets with the project area shown in the table attached marked Table V.

Two alternative alignments of the proposed FAP 414 Highway will have a direct effect upon the projected area. Alternative A-1 utilizes the alignments of Missouri Avenue and Broadway Avenue- Missouri Avenue providing a one-way access westerly and Broadway Avenue providing access easterly. This alternative will use the Veterans & Eads Bridge structures for access to St. Louis, Missouri. This alternative would dissect the Obear-Nester Glass Company plant operation located between Broadway and Missouri Avenues. Alternative E-1 is proposed as a new alignment. It would require right-of-way access through the projected area.

A major rail line and yard of the Southern Railroad is located in the project area. A multiple-track line runs East to West through the center of the project area to a piggy-back rail yard located at the eastern end of the area. The rail system serves Certain-Feed, Lefton Iron, Obear-Nester and other industries located in the project area south of the Southern Railroad line.

TABLE V PROJECT AREA ROAD CLASSIFICATIONS

<u>Streets</u>	Expressway	Prncpl. Arterial	Minor Arterial	Collector	Local Streets	<u>Streets</u>	Expressway	Prncpl. Arterial	Minor Arterial	Collector	Local Streets
10th Street				☒		Illinois			☒		
13th Street					☒	Cleveland				☒	
Columbia St.						St. Louis Ave.				☒	
15th Street				☒		Gaty Ave.				☒	
16th Street .				☒		Missouri Ave.		☒			
17th Street				☒		Kansas				☒	
18th Street					☒	Broadway Ave.			☒		
19th Street					☒	Division Ave.				☒	
20th Street					☒	Walnut Ave.				☒	
21st Street					☒	Brady Ave.				☒	
22nd Street					☒	Converse Ave.			☒		
24th Street				☒		McCasland Ave.				☒	
26th Street		☒				Bond Avenue			☒		